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1	PmCS	MNTLSQAIKA	YNSNDYEIAL	KLFEEKSAETY	GRKIVEFQII	KCKEKLSTNS	50
	PmHAS	MNTLSQAIKA	YNSNDYQLAL	KLFEEKSAEIIY	GRKIVEFQIT	KCKEKLSAHP	
	Consensus	MNTLSQAIKA	YNSNDY#LAL	KLFEEKSAEIIY	GRKIVEFQII	KCKEKLSanp	
51	PmCS	YVS.....	EDKKNSVCD\$	SLDIATQLII	SNVKKLTLSE	SEKNSLKKNKW	
	PmHAS	SVNSAHL SVN	KEEKVNVCDS	PLDIATQLII	SNVKKLVLSD	SEKNTLKKNKW	
	Consensus	svn.....	e#eKnVCD\$	PLDIATQLII	SNVKKLTL\$#	SEKNSLKKNKW	
101	PmCS	KSiTgKKSEN	AElRKVELVP	KDFPKDLVIA	PLPDHVNDFT	WYKNRKKSLG	150
	PmHAS	KLlTEKKSEN	AEVRVALVP	KDFPKDLVIA	PLPDHVNDFT	WYKKRKKRLG	
	Consensus	KLiTeKKSEN	AE!RaVaLVP	KDFPKDLVIA	PLPDHVNDFT	WYKNRKKrlG	
151	PmCS	IKPVNKNIGL	SIIIPTNRS	RILDITLACL	VNQKTNYPFE	VVADDGSKE	
	PmHAS	IKPEHQHVG	SIIVTTENRP	AIlSITLACL	VNQKTHYPFE	VIVTDDGSQE	
	Consensus	IKPenqn!GL	SII!ptENRp	aILDITLACL	VNQKTNYPFE	V!VaddGSqE	
201	PmCS	NLTIVQKYE	QKLDIKYVRQ	KDYGYQLCAV	RNLGLRTAKY	DFVSIILDCDM	200
	PmHAS	DlSPPIRQYE	NKLDIYVRQ	KDNGFQASA	RNMGLRLAKY	DFIGLLDCDM	
	Consensus	#LlpI!rqYE	#KLDIYVRQ	KDnG%QacAA	RN\$GLR1AKY	DF!giLDCDM	

Fig. 1a

					0 9 0 4 2 4 6 4 . 0 8 2 4 0 1
251	PmCS	APQQLWVHSY	LTELLEDNDI	VLIIGPRKYVD	THNITAEQFL
	PmHAS	APNPPLWVHSY	VAELLEDDDL	TIIGPRKYID	NDPYLIESLP
	Consensus	AP#qlWVHSY	laEELLD#Di	tiIGPRKY!D	TqnIdae#FL N#aslIESLP
301	PmCS	ETATNNNPSI	TSKGNISLDW	RLEHFKKTDN	LRLCDSPFRY
	PmHAS	EVKTNNNSVAA	KGEGTVSLDW	RLEQFEKTEN	FSCGNVAFSK
	Consensus	EtaTNNNpaa	kgeGn!SLDW	RLEqFeKT#N	FAAGNVAFAK
351	PmCS	EWLNKVGWFD	EEFNHWGGED	VEFGYRLFAK	GCFFRVIDGG
	PmHAS	KWLNKSGFFD	EEFNHWGGED	VEFGYRLFRY	MAYHQEPPGK
	Consensus	eWLINKsGffD	EEFNHWGGED	VEFGYRLFak	GSFFKTIIDGI
401	PmCS	ENETDREAGK	SITLKIVKEK	VPIIYRKLLP	IEDSHIHRIP
	PmHAS	ENETDREAGK	NITLDIMREK	VPIIYRKLLP	LVSIIYIPAYN
	Consensus	ENETDREAGK	nITLDimREK	VPIIYRKLLP	IEDSHInR!P
451	PmCS	CANYIQRCVD	SALNQTVVVL	EVCICNDGST	DNTLEVINKL
	PmHAS	CANYIQRCVD	SALNQTVVVL	EVCICNDGST	YGNNPVRIM
	Consensus	CANYIQRCVD	SALNQTVVVL	EVCICNDGST	DNTLEVINKL

Fig. 1b

501	PmCS	SKPNNGGIASA	SNAAVSFAKG	YYIGQLDSDD	YLEPDAVELC	LKEFLKDCTL
	PmHAS	SKPNNGGIASA	SNAAVSFAKG	YYIGQLDSDD	YLEPDAVELC	LKEFLKDCTL
	Consensus	SKPNNGGIASA	SNAAVSFAKG	YYIGQLDSDD	YLEPDAVELC	LKEFLKDCTL
551	PmCS	ACVYTTNRNV	NPDGSLIANG	YNWPEFSREK	LTТАMIAHHF	RMFTIRAWHL
	PmHAS	ACVYTTNRNV	NPDGSLIANG	YNWPEFSREK	LTТАMIAHHF	RMFTIRAWHL
	Consensus	ACVYTTNRNV	NPDGSLIANG	YNWPEFSREK	LTТАMIAHHF	RMFTIRAWHL
601	PmCS	TDGFNENIEN	AVDYDMFLKL	SEVGKFKHLN	KICYNRVLHG	DNTSIKKLGI
	PmHAS	TDGFNEKIEN	AVDYDMFLKL	SEVGKFKHLN	KICYNRVLHG	DNTSIKKLGI
	Consensus	TDGFNENIEN	AVDYDMFLKL	SEVGKFKHLN	KICYNRVLHG	DNTSIKKLGI
651	PmCS	QKKNHFVVVN	QSLNRQGINY	YNYDKFDLID	ESRKYIFNKT	AEYQEEMDIL
	PmHAS	QKKNHFVVVN	QSLNRQGITY	YNYDEFDDLD	ESRKYIFNKT	AEYQEEIDIL
	Consensus	QKKNHFVVVN	QSLNRQGINY	YNYDefDDLD	ESRKYIFNKT	AEYQEEiDIL
701	PmCS	KDLKLIQNKD	AKIAVSIFYP	NTLNLGVKKL	NNIEYNKNI	FVILHVDKN
	PmHAS	KDIKIIQNKD	AKIAVSIFYP	NTLNLGVKKL	NNIEYNKNI	FVIVLHVDKN
	Consensus	KDiKIIQNKD	AKIAVSIFYP	NTLNLGVKKL	NNIEYNKNI	FVI!LHVDKN

Fig. 1c

751	PmCS	HLTPDIKKEI	LAFYHKHQVN	ILLNNDISYY	TSNRLIKTEA	HLSNINKLSQL	800
	PmHAS	HLTPDIKKEI	LAFYHKHQVN	ILLNNDISYY	TSNRLIKTEA	HLSNINKLSQL	
	Consensus	HLTPDIKKEI	LAFYHKHQVN	ILLNNDISYY	TSNRLIKTEA	HLSNINKLSQL	
801	PmCS	LNLNCEYIIF	DNHDSLTVKN	DSYAYMKKYD	VGMNFSALTH	DWIEKINAHP	850
	PmHAS	LNLNCEYIIF	DNHDSLTVKN	DSYAYMKKYD	VGMNFSALTH	DWIEKINAHP	
	Consensus	LNLNCEYIIF	DNHDSLTVKN	DSYAYMKKYD	VGMNFSALTH	DWIEKINAHP	
851	PmCS	PFKKLIKITYF	NDNDLRSMMNV	KGASQGMFMK	YALPHELLTI	IKEVITSCQS	900
	PmHAS	PFKKLIKITYF	NDNDLKSMMNV	KGASQGMFMK	YALAHELLTI	IKEVITSCQS	
	Consensus	PFKKLIKITYF	NDNDLrsMMNV	KGASQGMFMK	YALAHELLTI	IKEVITSCQS	
901	PmCS	IDSVPEYNT	DIWFQFALLI	LEKKTGHVFN	KTSTLTYPW	ERKLQWTNEQ	950
	PmHAS	IDSVPEYNT	DIWFQFALLI	LEKKTGHVFN	KTSTLTYPW	ERKLQWTNEQ	
	Consensus	IDSVPEYNT	DIWFQFALLI	LEKKTGHVFN	KTSTLTYPW	ERKLQWTNEQ	
951	PmCS	IQSAKKGENI	PVNKFIIINSI	TL			972
	PmHAS	IESAKRGENI	PVNKFIIINSI	TL			
	Consensus	I#SAKrgENI	PVNKFIIINSI	TL			

Fig. 1d

09842484 . 082401

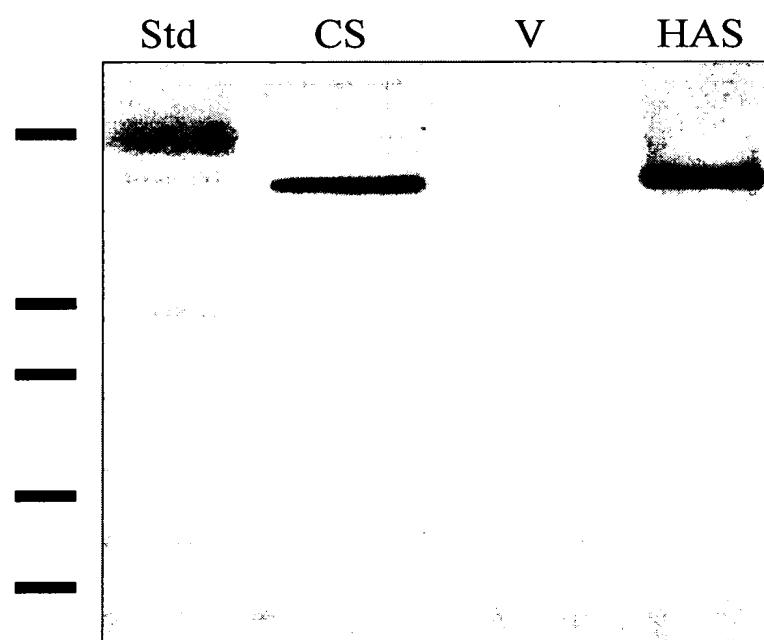


Fig. 2

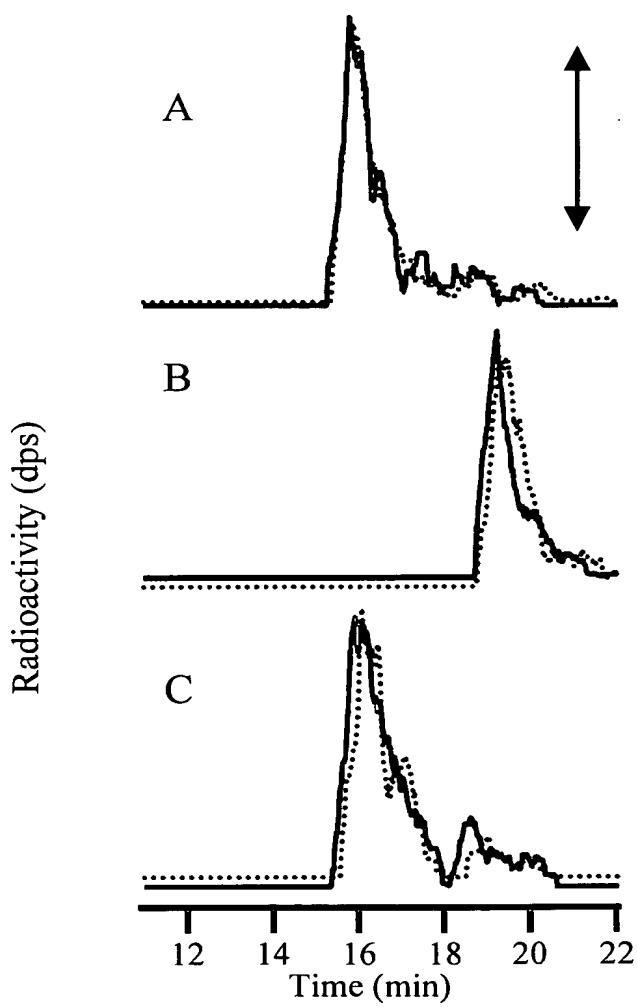


Fig. 3

09842484 . 082401

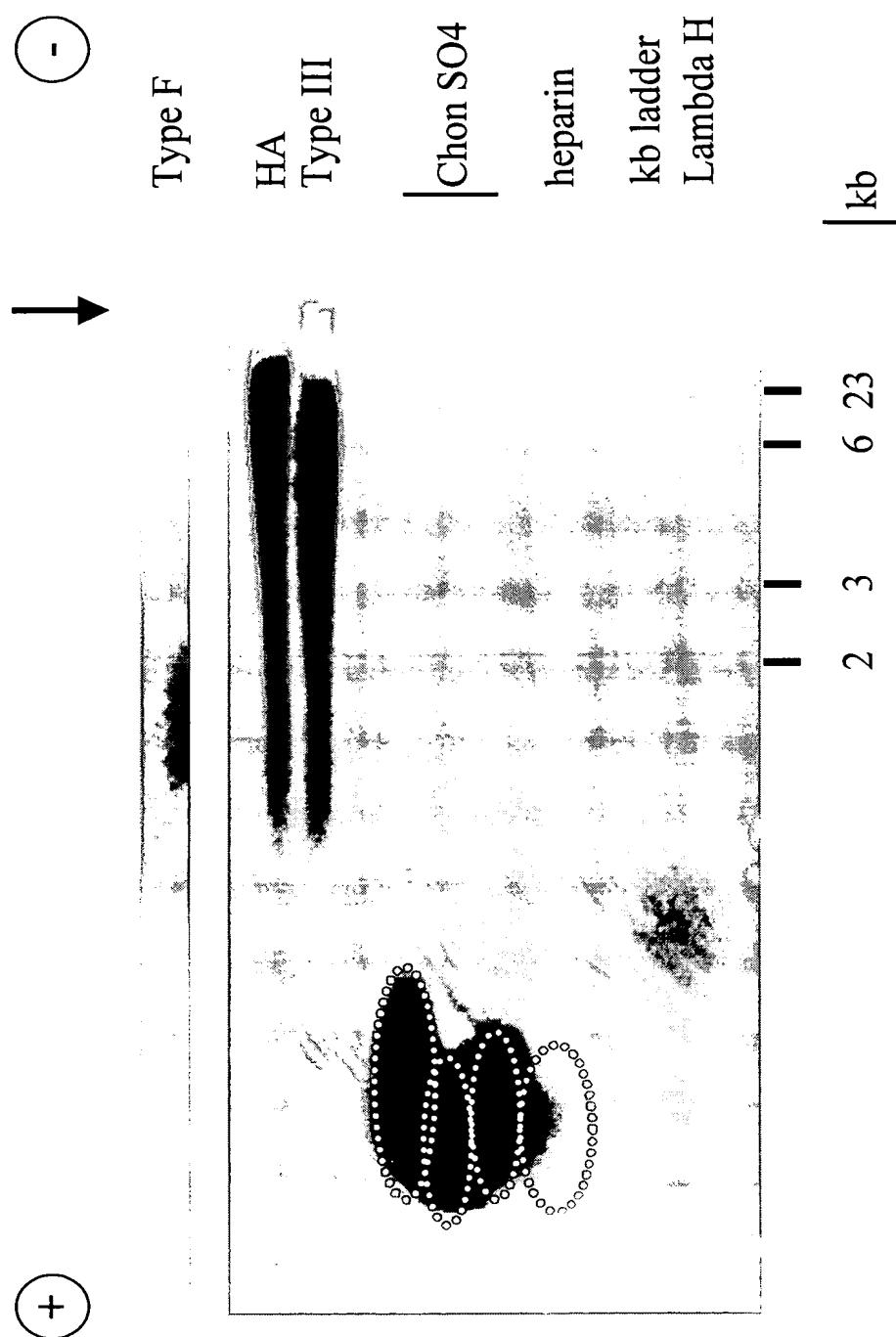


Fig. 4

09842484 .. 082401

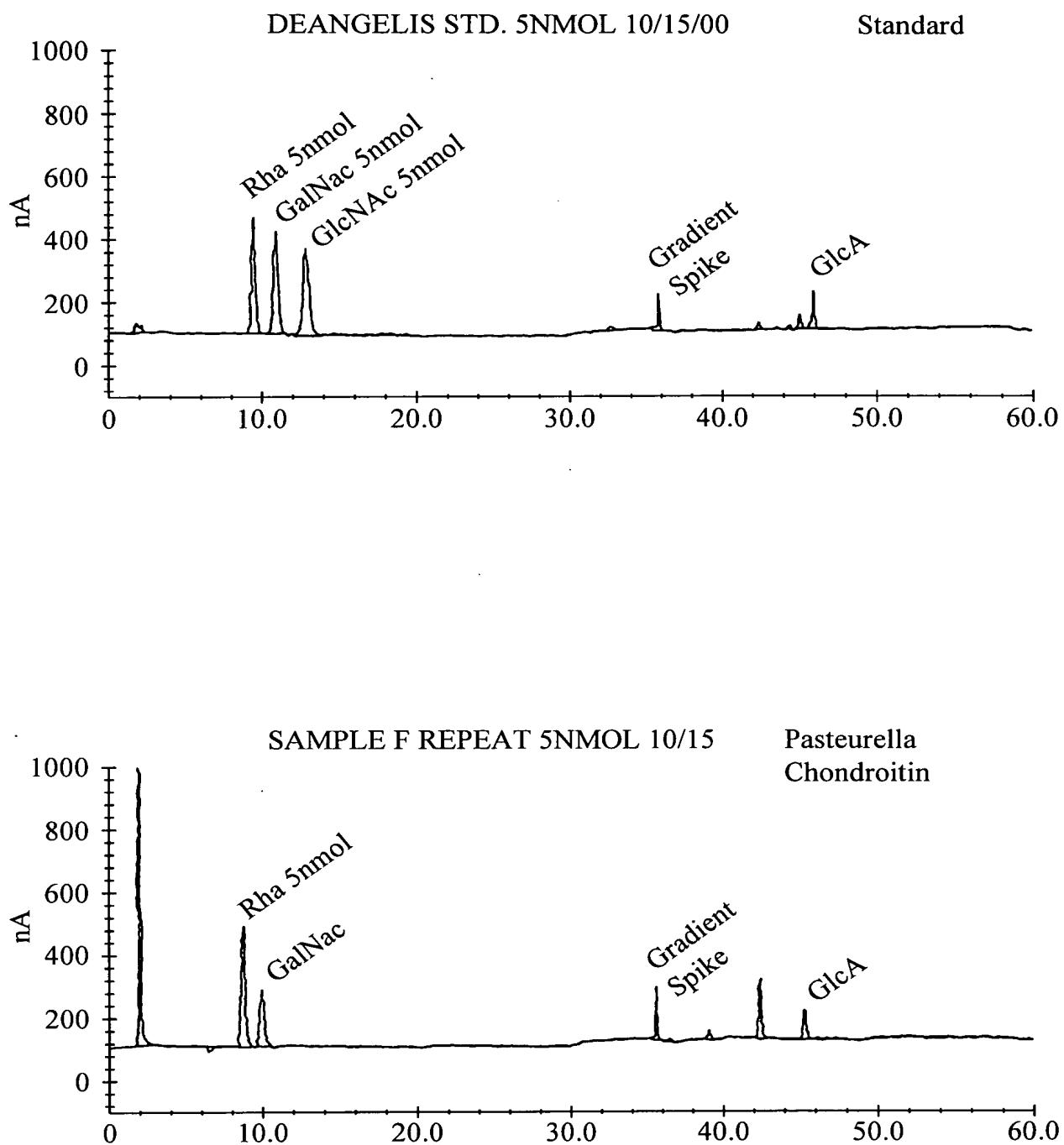


Fig. 5

09842484 . 082401

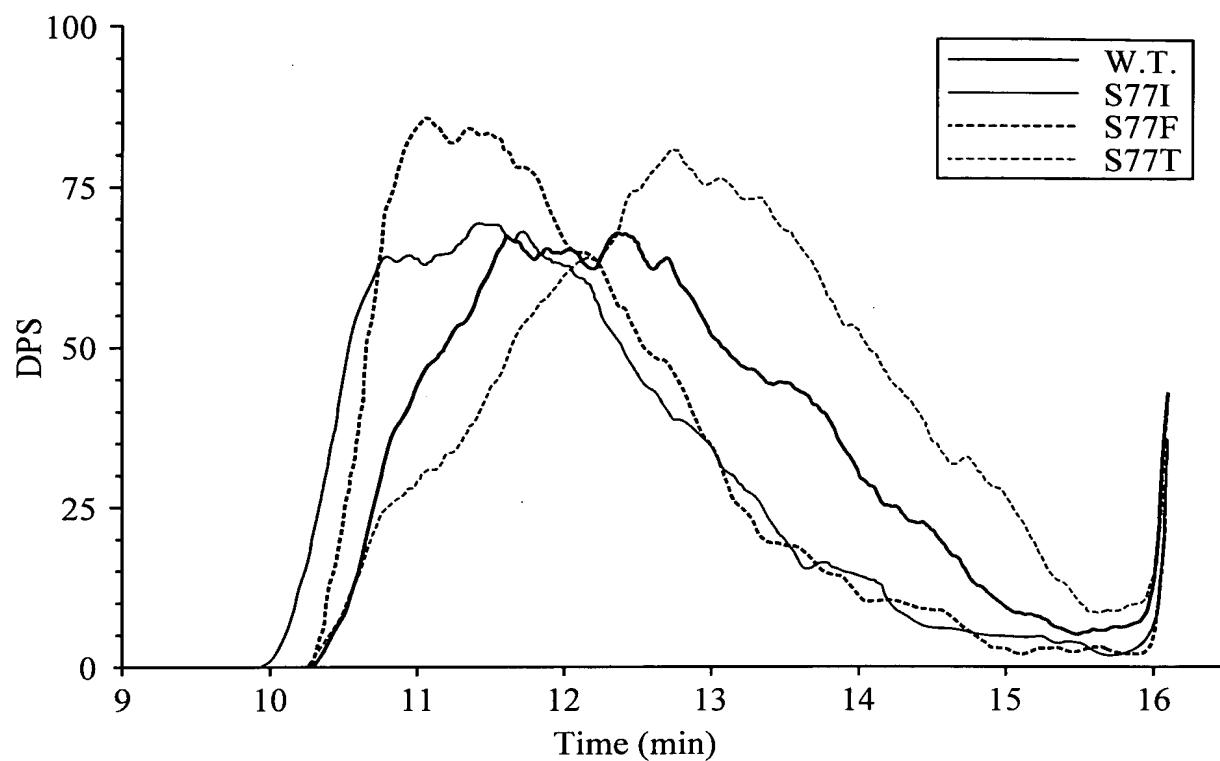


Fig. 6

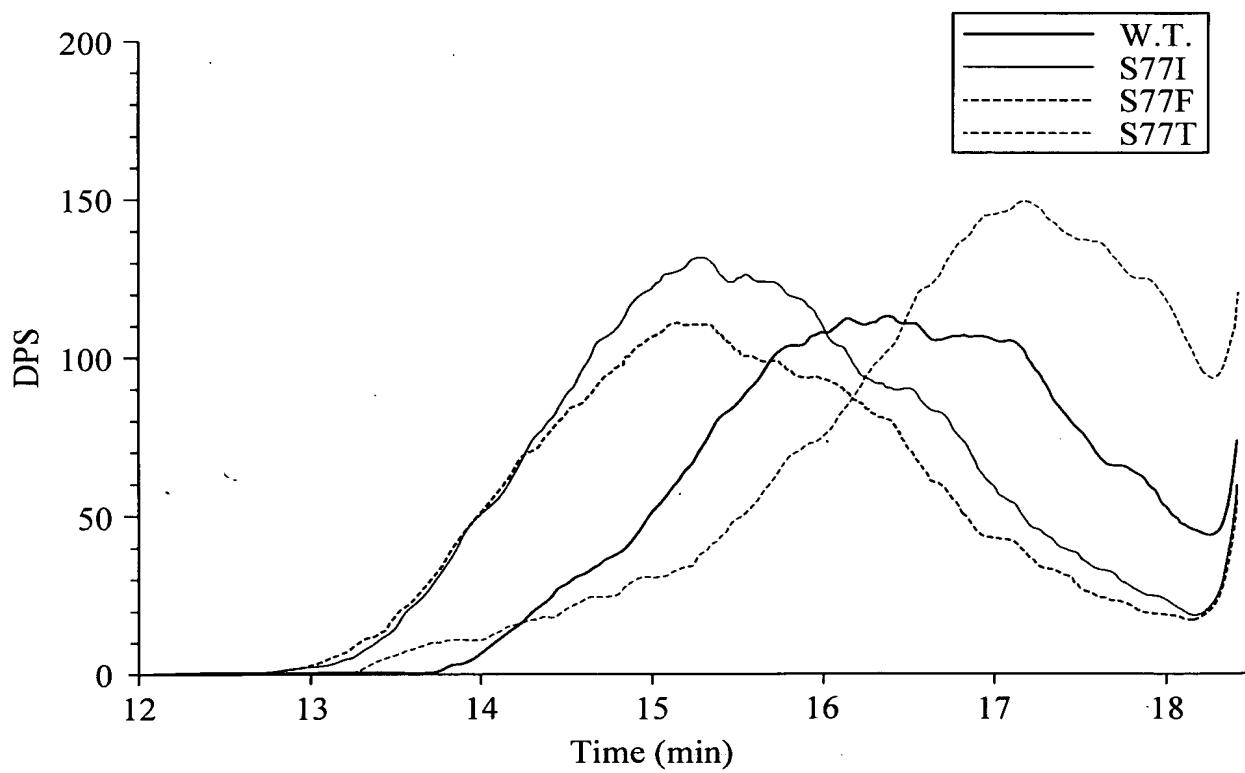


Fig. 7

NMR of Type F Polymer

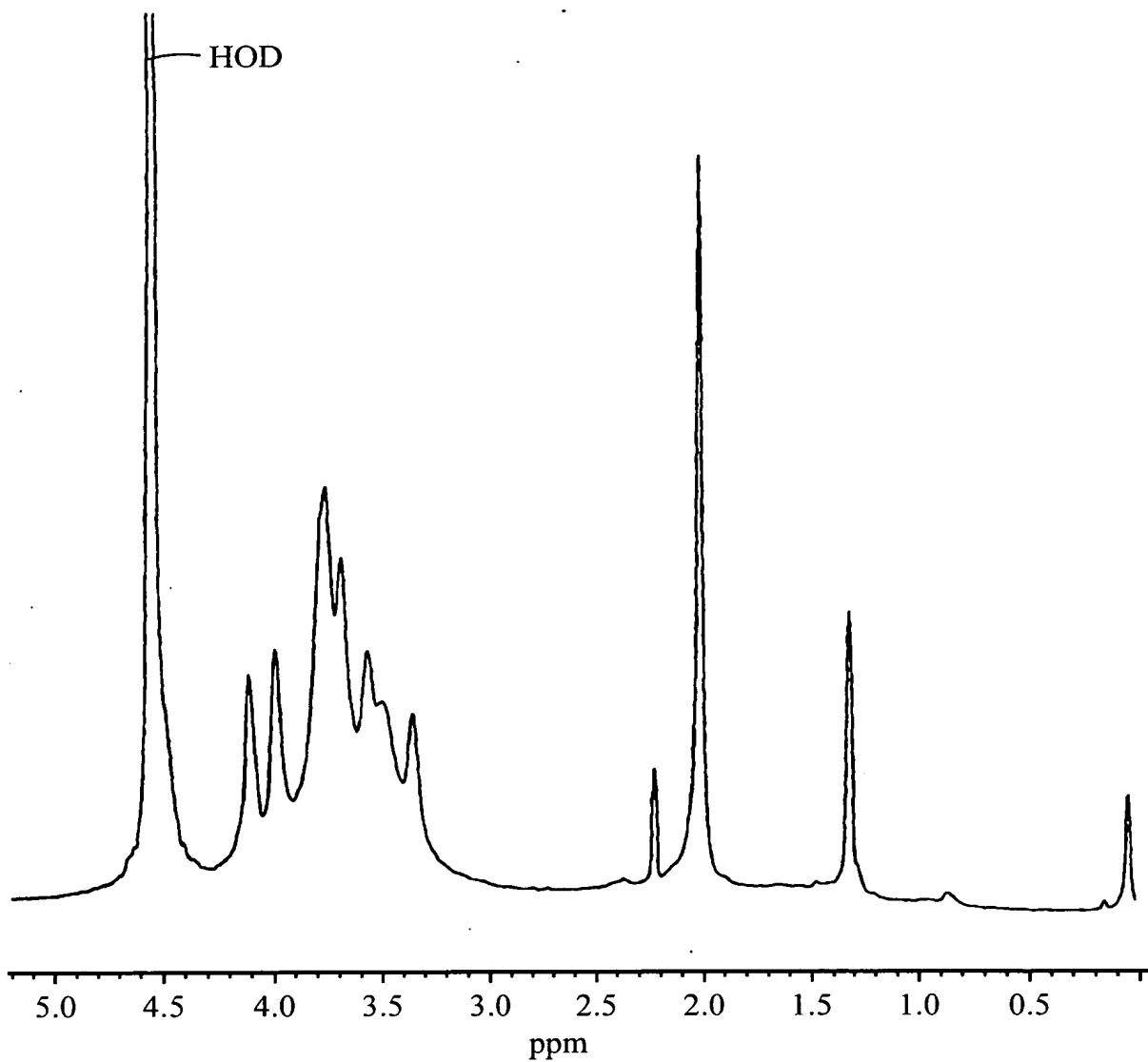


Fig. 8

09842484 . 082401

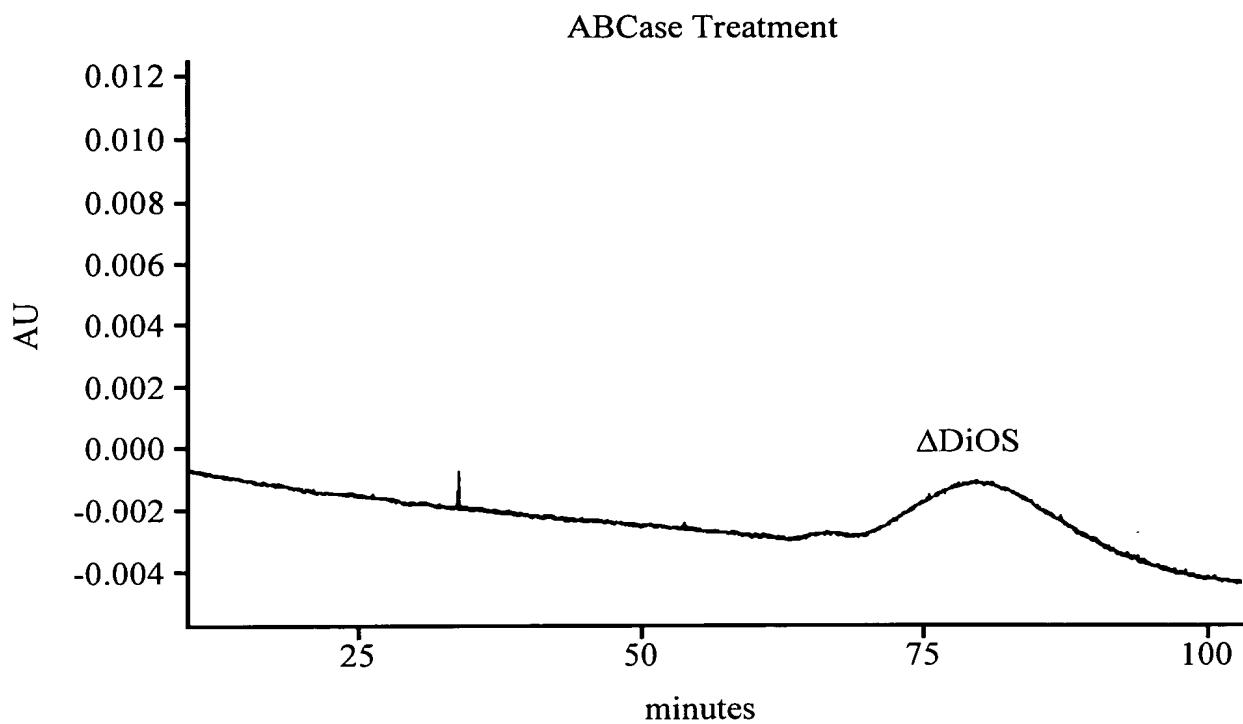


Fig. 9

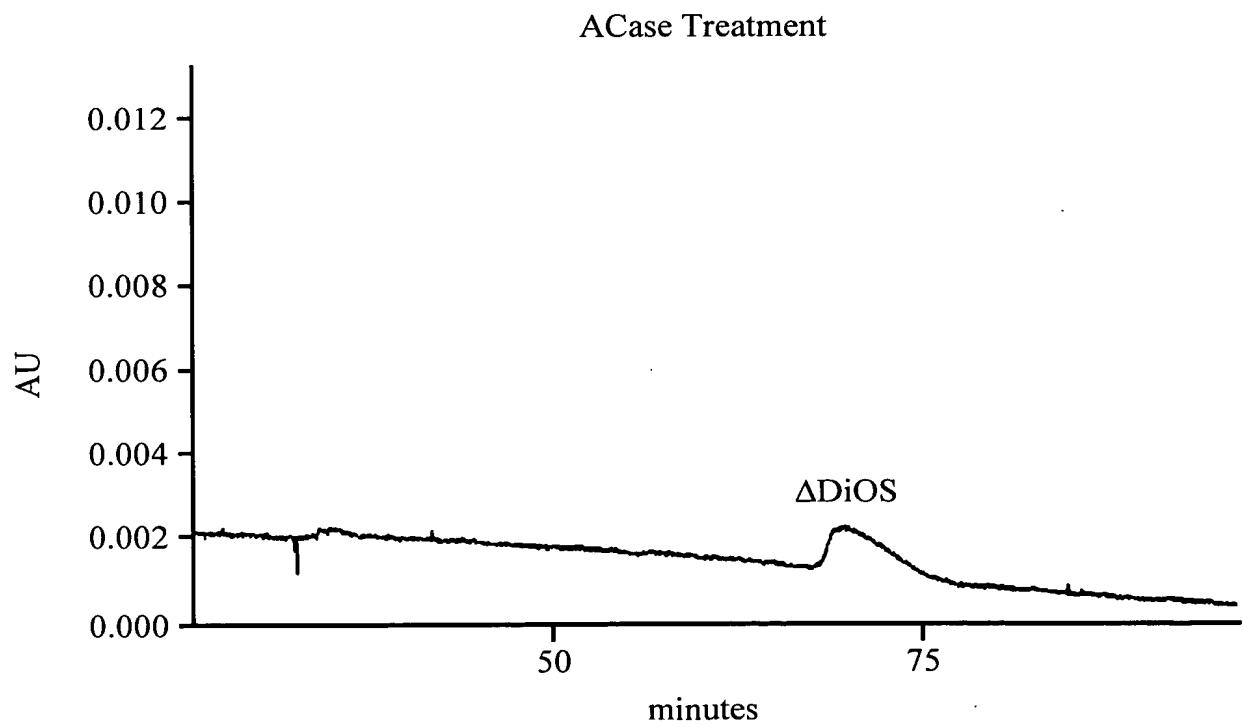


Fig. 10